

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Hidehiko KURODA et al.  
Title: TORSIONAL VIBRATION MEASURING INSTRUMENT  
Appl. No.: 10/509,126  
Filing Date: 09/28/2004  
Examiner: Unassigned  
Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

**RELEVANCE OF EACH DOCUMENT**

Any document listed on the attached PTO/SB/08 was cited as being relevant during the prosecution of the corresponding International application. Copies of the documents are not being provided since copies should have been provided directly by WIPO under an exchange program between the PTO, the EPO and the JPO. A copy of the International Search Report setting forth the portion of each reference considered relevant by the examiner is attached.

Documents A1 and A14 claim priority based on the same first-filed application.

Documents A2-A4, A15-A17 claim priority based on the same first-filed application.

Documents A5, A18-A20 claim priority based on the same first-filed application.

Documents A6, A21-A22 claim priority based on the same first-filed application.

Documents A7, A23-A24 claim priority based on the same first-filed application.

Documents A8, A25-A26 claim priority based on the same first-filed application. Document A8 and A25 is also described in the specification and discloses a non-contact system and method for monitoring the rotating shaft vibration. Monitoring is carried out optically measuring the relative twist angle of the rotating shaft.

Documents A9 and A27 claim priority based on the same first-filed application.

Documents A10 and A28 claim priority based on the same first-filed application.

Documents A11, A29-A30 claim priority based on the same first-filed application.

Documents A12, A31-A34 claim priority based on the same first-filed application.

Documents A13, A35-A36 claim priority based on the same first-filed application.


Applicants wish to bring to the Examiner's attention that US 5,723,794 is mentioned twice in the International Search Report (the first reference cited on page two (cite no. A6) of the search report and third from the last reference cited on the same page). Applicants' believe that the patent numbers has been transposed mentioning the inventor as "Seetha R. Mannava", therefore we did not cite this particular reference.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date: NOV 29 2004

By 

FOLEY & LARDNER LLP  
Customer Number: 22428  
Telephone: (202) 672-5414  
Facsimile: (202) 672-5399

Richard L. Schwaab  
Attorney for Applicant  
Registration No. 25,479

Under the Paperwork Reduction Act of 1995, no responses are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: <b>NOV 29 2004</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				<b>Application Number</b>	10/509,126
				<b>Filing Date</b>	09/28/2004
				<b>First Named Inventor</b>	Hidehiko KURODA
				<b>Group Art Unit</b>	Unassigned
				<b>Examiner Name</b>	Unassigned
				<b>Attorney Docket Number</b>	055652-0107
<b>Sheet</b>	1	of	2		

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	6,460,422	B1	KURODA et al.	10-08-2002	
	A2	5,253,531		WALKER et al.	10-19-1993	
	A3	5,474,813		WALKER et al.	12-19-1995	
	A4	5,734,108		WALKER et al.	03-31-1998	
	A5	5,747,699		EBI	05-05-1998	
	A6	5,723,794		DISCENZO	03-03-1998	
	A7	4,862,749		YAGI	09-05-1989	
	A8	5,438,882		KARIM-PANAHI et al.	08-08-1995	
	A9	5,297,044		SAKAKI et al.	03-22-1994	
	A10	5,001,937		BECHTEL et al.	03-26-1991	
	A11	4,918,997		POUILLANG	04-24-1990	
	A12	4,347,748		PIERSON	09-07-1982	
	A13	4,352,295		MAEHARA et al.	10-05-1982	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A14	JP	2002-22564	A	TOSHIBA CORP., et al.	01-23-2002		
	A15	JP	7-509053	A	DANA A. WALKER et al.	10-05-1995		
	A16	WO	93/21502	A1	DANA A. WALKER et al.	10-28-1993		
	A17	WO	95/11431	A1	DANA A. WALKER et al.	04-27-1995		
	A18	WO	96/02815	A1	GUNTER EBI	02-01-1996		
	A19	DE	44 25 503	C1	GUNTER EBI	07-06-1995		
	A20	EP	0 771 413	B1	GUNTER EBI	05-07-1997		
	A21	WO	97/12214	A1	ALLEN-BRADLEY COMPANY, INC.	04-03-1997		
	A22	EP	0 795 123	B1	ALLEN-BRADY COMPANY, INC.	08-08-2001		
	A23	JP	7-3360	B	HITACHI, LTD.	01-18-1995		
	A24	EP	0 284 087	A2	HITACHI, LTD.	09-28-1988		
	A25	JP	7-5056	A	GENERAL ELECTRIC CORP.	01-10-1995		
	A26	EP	0 608 993	A2	GENERAL ELECTRIC CORP.	08-03-1994		
	A27	JP	4-348239	A	MAZDA MOTOR CORP.	12-03-1992		
	A28	WO	91/06840	A1	TACAN CORPORATION	05-16-1991		
	A29	FR	2 612 633	A1	ALSTHOM CGEE	09-23-1988		
	A30	EP	0 285 827	B1	ALSTHOM CGEE	10-12-1988		

Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no responses are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: <b>NOV 29 2004</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/509,126
				Filing Date	09/28/2004
				First Named Inventor	Hidehiko KURODA
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	2	of	2	Attorney Docket Number	055652-0107

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A31	JP	55-131738	A	QUEEN'S UNIVERSITY AT KINGSTON	10-13-1980		
	A32	DE	30 11 700	A1	QUEEN'S UNIVERSITY AT KINGSTON	10-09-1980		
	A33	GB	2 049 169	A	QUEEN'S UNIVERSITY AT KINGSTON	12-17-1980		
	A34	CA	1,121,174	A	QUEEN'S UNIVERSITY AT KINGSTON	04-06-1982		
	A35	JP	52-142568	A	ONO SOKKI CO., LTD.	11-28-1977		
	A36	JP	52-142557	A	ONO SOKKI SEISAKUSHO KK	11-28-1977		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.